

The Determination of Calcium Ions by Flame
Photometric Titration, by L. Erdey,
G. Svehla.

GERMAN, per, Z. fur Analytische Chemie,
Vol CLIV, No 6, 1957, pp 406-413.

CSIRO 3998

Sci - Phys
Aug 62

207,477

Gravimetric Determination of Sulfate as Benzi-
dinesulfate, by G. Gottschalk, et al.
GERMAN, per, Zeitschrift fur Analytische Chemie,
Vol 155, 1957, pp 251-263.
*AEC

Sci/Chemistry
Dec 66

Elauius, E. and Lange, G.
ION EXCHANGE MEMBRANES IN PREPARATIVE AND
ANALYTICAL CHEMISTRY. [1963] 27p. (refa. figa.
omitted).

Order from SLA \$2.60

63-16136

Trans. of Zeitschrift für Analytische Chemie (West
Germany) 1958, v. 160, p. 169-188.

DESCRIPTORS: *Ion exchange resins, Membranes,
*Electrodialysis, *Molybdates, *Tungstates,
*Magnesium, *Aluminum, Sodium compounds,
Carbonates, Purification, Synthesis (Chemistry),
Chemical analysis.

(Chemistry--Analytical, TT, v. 10, no. 7)

63-16136

I. Elauius, E.
II. Lange, G.

Office of Technical Services

Claassen, A. and Bastings, L.
THE EXTRACTION OF FERRIC CHLORIDE WITH
METHYL ISOBUTYL KETONE AND AMYL ACETATE.
[1961] 7p. 7 refs.
Order from SLA \$1.10

61-20587

Trans. of Zeitschrift für Analytische Chemie (West
Germany) 1958, v. 160, no. 6, Sonderdruck p. 403-409.
Another trans. is available from BISI # 2 as BISI-1310
[1959].

DESCRIPTORS: Iron, *Iron compounds, *Chlorides,
*Solvent extraction, Organic solvents, *Hexone,
Methyl radicals, Butyl radicals, *Acetates, Hydro-
chloric acid, Acids, *Pentyl radicals.

The extraction of iron as ferric chloride in 7 M hydro-
chloric acid by a mixture of (1 + 1) or (2 + 1) methyl
(Chemistry--Analytical, TT, v. 7, no. 9) (over)

61-20587

I. Claassen, A.
II. Bastings, L.

Office of Technical Services

Neeb, K. H. and Gebauhr, W.
FLAME-PHOTOMETRIC DETERMINATION OF
SMALL AMOUNTS OF POTASSIUM IN SODIUM AND
ITS COMPOUNDS AFTER ENRICHMENT WITH
AMMONIUM TETRAPHENYL BORON. 11 Jan 60, 10p.
(figs. omitted) 10 refs.
Order from SLA \$1.10

63-14128

Trans. of Zeitschrift [für] Analytische Chemie]
(West Germany) 1958, v. 162, no. 3, p. 167-174.

DESCRIPTORS: *Potassium, Chemical analysis,
Flames, Photometers, Sodium, *Sodium compounds,
Additives, *Ammonium compounds, Phenyl radicals,
*Boron compounds, Chemical precipitation, Tracer
studies.

(Chemistry--Analytical, TT, v. 10, no. 4)

63-14128

I. Neeb, K. H.
II. Gebauhr, W.

Office of Technical Services

CEA-tr-A-978 Uncl.

METHODE TRES SENSIBLE POUR LA CARACTERISATION
DU FLUOR. (Very Sensitive Method for Fluor
Evaluation). K. Machner. Translated into
French from Z. anal. Chem., 162: 6(1958).

4p.

9098268

Instrumentation; Translations MC-37

C-37 NP NSA Dep.(mc); \$1.10(fs), \$0.80(mf)
JCL

N-3

Comparative Experiments in the Extraction of
Iron(III) Chloride with Organic Solvents, by
E. Bankmann, H. Specker, 16 pp.
GERMAN, per, Z. Anal Chem, Vol 162, 1958, pp 18-28.
AEC/ORNL-Tr-1117

Sci/Chem
Jul 70

Analysis of Very Pure D'thylene by Gas
Chromatography, by G. Nodop, 6 pp.

GERMAN, per, Z Anal Chem, Vol CLXIV, No 1,
1958, pp 120-127.

ATS-20M39G

Feb 62

The Interference Effect in the Mass Spectrometer
Ion Source, by Rolf Taubert, 27 pp.

GERMAN, per, Z fuer Anal Chem, Vol CLXIV, 1958,
pp 164-181. 9077349

AEC Tr-4562

Sci - Chem
Jun 61

157,731

Ion-Exchange Membranes in Preparative and
Analytical Chemistry, by E. Blasius, G. Lange,

GERMAN, per, Zeit fur ^AAnal Chem, Vol CLX, No 3,
pp 169-188. 1958

O.S.I.N.O.

Sci - Chem

May 60

116,426

The Serivatograph, by F. RAY Paulik, J.
Paulik, et al, 11 pp.

GERMAN, per, Z. fur Analytische Chemie,
Vol CLX, 1958, pp 241-252.

CSIRO

Sci - Chem
Nov 61

174,392

Determination of Silver in Ores, by Jan Michal,
Eva Pavilikova, Jaroslav Zyzka, 5 pp.

GERMAN, per, Z Anal Chem, Vol CLX, No 4, 1958,
pp 277-279.

SLA 59-15034

Sci - Minerals/Metals
Sep 59
Vol II, No 2

98,664

The Extraction of Ferric Chloride With Methyl
Isobutyl Ketone and Amyl Acetate, by A. Cleensen,
L. Bastings. UNCL

GERMAN, par, 2 Anal Chem, No 6, 1958, pp 403-409.

British Iron and
Steel Ind 1310
(12)

Sci - Chem
May 59

86,781

A New Method for the Determination of Uranium in
Phosphates, Coal Ashes, Bauxites, by Ion Exchange,
by J. Korkisch, A. Farag, F. Hecht. UNCL

GERMAN, per, Z Anal Chem, Vol CLXI, No 2, 1958,
pp 92-100.

Amalium AEC/E-19
DSIR 34629/CT

Sci - Ga Chem
Mar 59

89,355

Polarographic Determination of Impurities in
Pure Indium, by F. A. Pohl, W. Bonsels, 14 pp.

GERMAN, per, Z fuer Analytische Chemie, Vol CLXI,
1958, pp 108-113.

CIA/PDD IX-898
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem

Sep 60

USIB INTERNAL USE ONLY

125,845

Explanation of the Vaporization, Decomposition and
Excitation Processes in Flames. The Influence of
Aluminum, Silicic Acid and Phosphoric Acid on the
Flame Photometric Determination of Alkaline Earths,
by W. Schuhknecht, H. Schinkel, 14 pp.

GERMAN, per, Zeitschrift fuer Analytische Chemie,
Vol CLXII, No 4, pp 266-279, 1958,

SLA 59-17056

Sci
Jan 60
Vol 2, No 7

104,495

The Separation of Cations on a Paper-
Chromatographic Basis, by E. Blasius,
W. Gottling.
GERMAN, per, Z fuer Analytische Chemie.
Vol CLXII, 1958, pp 423-429. 9231637
AEC-UCRL-TT-1245(L)

also TT-65-18097

Sci - Phys
Jan 66

294,275

The Determination of Copper by Flame Photometry,
by H. Bode, H. Fabian.

GERMAN, per, Z. fuer Analytische Chemie,
Vol CLXIII, 1958, pp 187-196.

CSIRO

Sci - Phys
Aug 62

207,353

Fahnen, E. A. M. F. and Laarse, J. D. van der.
ANALYSIS OF PRODUCTS CONTAINING CYCLO-
PENTADIENE WITH PARTICULAR EMPHASIS ON
GAS CHROMATOGRAPHY. [1962] 15p. 10 refs.
Order from SLA \$1.60 65-20451

Trans. of Zeit[schrift für] Analytische] Chem[ie]
(West Germany) 1958, v. 164, p. 37-46.

DESCRIPTORS: *Cyclopentadiene, Chromatographic
analysis, Spectrum analyzers, Molecular isomerism,
Coal, Hydrocarbons, *Gas chromatography, Impurities,
Synthesis (Chemistry).

(Chemistry--Analytical, TT, v. 9, no. 10)

65-20451

I. Fahnen, E. A. M. F.
H. Laarse, J. D. van der

Office of Technical Services

Analysis of Very Pure D'thylene by Gas
Chromatography, by G. Nodop, 6 pp.

GERMAN, per, Z Anal Chem, Vol CLXIV, No 1,
1958, pp 120-127.

ATS-20M39G

Feb 62

186, 286

About the Quantitative Interpretation of Fractograms of
Distribution Chromatography Thermal Conductivity
Method, by G. Schomburg, 20 pp.

GERMAN, par, Z. Analyt. Chemie, Vol. CLXIV, No. 1, 1958,
pp 147-158.

SLA 59-10569

Sci - Chem

Sep 59

Vol 2 No 1

97,250

A Method for the Photometric Determination of
Selenium, by E. Bode, H. Macenthin, 8 p.

QUINTAL, par, Zeit Anal Chem, 1956, Vol CLXIV,
pp 232-241.

MS-42L31G

Sci
Jan 50
Vol 2, No 8

105,585

Infrared Spectroscopic Investigation of Inclusion Compounds of Urea and Thiourea, by R. Mecke, W. Kutselnigg, 5 pp.
GERMAN, per, Zeitschrift Fuer Analytische Chemie, Vol 170, No 1, 1959, pp 114-120.
ACSI J-3163
ID 2204035967

Sci-B and M
Feb 68

349,178

The Analytical Features of Purified Sulphur. Contribution XI to the Chemistry of Sulphur, 54, by F. Feher, et al.

GERMAN, per, Z. fuer Analytische Chemie,
Vol CXXXVIII, No 2, 1959, pp 88-101.

CSIRO

Sci - Chem
Jul 62

207,599

TT-65-13707

Field 7B

Jackwerth, E.; Specker, H.
VOLUMETRIC DETERMINATION OF BIVALENT
MERCURY IN THE PRESENCE OF CHLORIDE,
BROMIDE AND HEAVY METALS (Massanalytische
Bestimmung von Zweiwertigem Quecksilber in
Gegenwart von Chlorid, Bromid und Schwermetallen).
6p (foreign text included).
Order from SLA: \$1.10 as TT-65-13707

Trans. of Zeitschrift fuer Analytische Chemie
(West Germany) v167 n4 p269-71 1959.

MR 663

Öhne, Friedrich.
RAPID DIELECTRIC DETERMINATION OF THE RESIDUAL WATER CONTENT OF INORGANIC FERTILIZER SALTS. [1962] 11p. 5 refs.
Order from SLA \$1.60

62-16178

Trans. of Zeitschrift für Analytische Chemie (West Germany) 1959, v. 167 [no. 4] p. 271-277.

DESCRIPTORS: Dielectric properties, *Water, *Fertilizers, Inorganic substances, Determination.

The possibility which has been used often to determine water contents on the base of the measurements of dielectric constants, is described as applied in the shape of a new immersion technique for the determination of the residual water in inorganic fertilizer salts. As the amount of water present (less than 5%) contributes greatly to the value of the dielectric constant, this (Chemistry--Analytical, TT, v. 9, no. 1) (over)

62-16178

I. Öhne, F.

Office of Technical Services

Investigation into the Relationships Between Gas-
Chromatographic Retention Ratios and Vapor Pressure
Ratios. I. Aromatic Hydrocarbons, by D. Jentzsch,
G. Bergmann, 14 pp.

GERMAN, per; Z. Anal. Chem., Vol CIXV, No 5, 1959,
pp 401-415.

ATS 263-GJ
ATS-95L310

Sci - Chem
Nov 59

109,373

Fract Ometric Analysis of Deuterium in a
Current of Hydrogen, by O. Riefel, E.
Uhlmann.
GERMAN, per, Ziet. fur Analytische Chemie,
Vol 166, pp 433-439, 1959 9229656
AEC NP-Tr-1271

Sci-Chem
Nov 65

291,938

The Direct Determination of Oxygen in Organics,
by W. Radmacher, A. Hoyerath.

GERMAN, per, Z. fuer Analytische Chemie,
Vol CLXVII, 1959, pp 336-342.

Broken Hill Prop Co Ltd
(CRL/T.438)

Sci - Chem

191, 691

Apr 62

Determination of Small Quantities of Silicon in
Water by Extraction of Siliconmolybdenum Blue
With Chloroform and Photometry of the Chloroform
Solution, by W. Sonnenschein, 13 pp.
GERMAN, per; Z fuer Analytische Chemie,
Vol CLXVIII, 1959, pp 18-28. 9222107
ACSIL Tr 1406

Sci - Chem
Jun 64

260,271

Maurice, M. J. and Wiggers, B. G.
THE COMPARISON OF THE ACCURACY OF TWO
ANALYTICAL METHODS. [10 Jun 63] 6p 4refs
Order from SLA \$1.10 TT-64-10879

Trans. of Zeitschrift für Anal[ytische] Chem[ie]
(West Germany) 1959, v. 168, no. 5, p. 335-339.

(Chemistry--Analytical, TT, v. 11, no. 12)

TT-64-10879

I. Maurice, M. J.
II. Wiggers, B. G.

Office of Technical Services

Kuhn, V.
A NEW METHOD FOR THE SIMULTANEOUS COM-
PLETOMETRIC DETERMINATION OF CALCIUM
AND MAGNESIUM BLAST-FURNACE SLAG AND
REFRACTORY PRODUCTS. [1960] 1p. 3 refs.
Order from SLA mi\$1.80, ph\$1.80 61-10237

Trans. of Zeit[schrift] für Analytische Chemie (West
Germany) 1959, v. 169, no. 4, p. 291.

The method consists of removing the interfering ele-
ments by extraction with acetylacetone and diethyl-
dithiocarbamate in chloroform and a subsequent
titration of calcium with EDTA and 2-hydroxy-1-(2-hy-
droxy-4-sulfo-1-naphthylazo) 3-naphthoic acid as
indicator. Magnesium is determined in the classical
manner with eriochrome black T.

(Chemistry--Analytical, TT, v. 5, no. 3)

61-10237

1. Slags--Chemical analysis
2. Refractory materials--
Chemical analysis
1. Kuhn, V.

142,930

Office of Technical Services

Recent Aspects of the Analytical Application of the
Raman Effect, by J. Brandmuller, 11 pp.

GERMAN, per, Z. fur Anal Chem, Vol CLXX, No 1, 1959,
pp 29-43.

ATS-401#1G

Sci

190, 280

Apr 62

Vol IV, No 6

Infrared Spectroscopic Studies of Urea and
Thiourea Clathrate Compounds, by R. Mecke, et al.
GERMAN, per, Zeitschrift fuer Analytische Chemie,
Vol 170, No 1, 1959, pp 114-120.
*ACSI J-3163
ID 2204035967

Sci/Chemistry
Aug 67

Kimmer, W. and Schmalz, E. O.
A CONTRIBUTION TO THE INFRARED SPECTRO-
SCOPIC ANALYSIS OF RUBBER. 15 Jul 63 [20p] 7 refs
Order from SLA \$1.60 63-20243

Trans. of Zeitschrift für Analytische Chemie (West
Germany) 1959, v. 170, p. 132-147.

DESCRIPTORS: *Rubber, *Synthetic rubber,
*Butadienes, Molecular isomerism, *Infrared
spectroscopy.

In order to be independent of the use of standard sub-
stances, especially in the quantitative analysis of
rubber isomers, a method was developed with which it
is possible to determine quantitatively the 1,2-,
1,4-cis- and 1,4-trans- isomers in rubber without the
hitherto customary use of olefins as standard sub-
stances. By this method, dilution series are prepared
from three rubber samples, fictitious extinction coef-
(Materials--Rubber, TT, v. 10, no. 12) (over)

63-20243

I. Kimmer, W.
II. Schmalz, E. O.

*JPRS for ARGMA

Office of Technical Services

Concerning the Use of Metal-Specific Indicators
for Titrations Involving Precipitation.

GERMAN, per, Z Anal Chem, Vol CLXX, ~~X~~ p 142.

Possibly to Come From Contacts
per 10 Dec 62 memo
USIB INTERNAL USE ONLY

Sci - Chem

Dec 62

Physico-Chemical Measurements by Means of Gas
Chromatography, by E. Cremer.

GERMAN, per, Z. fuer Anal Chem, Vol CLXX, Part I,
Jan 1959, pp 220-222; Part 4, pp 226-231.

*UKAEA
Ca/Tr No 80

Sci - Phys

5 Mar 63

Rohrschneider, L.
POLARITY OF THE STATIONARY PHASE IN GAS
CHROMATOGRAPHY (Polarität Stationärer Phasen der
Gaschromatographie). [7 Feb 63] [14]p. 3 refs.
Order from SLA \$1.60 63-18286

Trans. of Z[eitschrift für] Anal[ytische] Chem[ie]
(West Germany) 1959, v. 170, p. 256-263.

DESCRIPTORS: *Polarization, *Gas chromatography,
*Phase studies, Hydrocarbons, Gases, Molecular
structure.

Twenty-three different stationary phases suitable for
the analysis of gaseous hydrocarbons are arranged into
a series of increasing polarity. A satisfactory separa-
tion of all gaseous paraffins and olefins can be expected
only for two polarities. 1,3-butylenglycolsulfite cor-
responds to the one, a combination of 5 m. diethyl
(Chemistry--Analytical, TT, v. 10, no. 11) (over)

63-18286

I. Rohrschneider, L.

Office of Technical Services

The Theory of Mass Spectra, by R. Taubert,
14 pp.

GERMAN, per, Z Anal Chem, Vol CLXX, 1959,
pp 333-348.

ATS-04443G
ATC/250-GJ
193,765

Sci
May 62

Vol 4, No 10

Hirajärvi, V. P., Kenttämää, E. and others.
THE DETERMINATION OF FLOURINE IN THE
PRESENCE OF SOME INTERFERING IONS. [1962]
[9]p. 19 refs.

Order from SLA \$1. 10

62-10699

Trans. of Z[schrift für] Anal[ytische] Chemie
(West Germany) 1959, v. 171, p. 354-359.

DESCRIPTORS: *Flourine, *Ions, Sulfates, Chlorides,
Phosphates, Borates, Iodides, Carbonates, Distilling
plants.

In conducting the fluorine determination using the
modification of the Willard-Winter method, the amounts
of sulfates, chlorides, or orthophosphates used in the
experiments do not cause any errors in the determi-
nation of milligram quantities of fluorine. The in-
fluence of borates, iodides, and carbonates is also no
small that they are of no significance. It is not
(Chemistry--Analytical, TT, v. 8, no. 7) (over)

62-10699

I. Hirajärvi, V. P.
II. Kenttämää, E.

Office of Technical Services

4
Dosage du fluor en presence de quelques ions
genants, by V. P. Hirsjarvi, E. Kenttamaa,
et al, 12 pp.
GERMAN to FRENCH, per, Z fuer Anal Chem,
Vol CLXXI, No 5, 1959, pp 354-359. 9222304

Reverse Translation
CEA-A-619

Sci
Jun 64

Application Limits of the Polarographic Method
in Inorganic Analysis, by F. V. Sturm, 9 pp.
GERMAN, per, Z Anal Chem, Vol 173, 1960, pp 11-17.
AEC/ORNL-Tr-2176-69

Sci/Chem
Apr 70

405,653

Tast Polarography, by Adolf-Werner Elbel.
GERMAN, per, Z. Anal. Chem., No 173, 1960,
pp 70-73. 9233238
AEC ORNL-tr-1271

Sci/Chemistry
Aug 66

306,291

Vielstich, W.
THEORY AND APPLICATION OF THE ROTATING
DISK ELECTRODE. [1960] 7p. 19 refs.
Order from SLA ml\$1.80, ph\$1.80 60-18115
Trans. of Zeitschrift für Analytische Chemie (West
Germany) 1960, v. 173, no. 1, p. 84-87.

143,054

(Chemistry--Analytical, TT, v. 5, no. 3)

60-18115

1. Electrodes--Design
2. Chemical reactions--
Analysis
1. Vielstich, W.

Office of Technical Services

The Back Pressure of Mercury Drops as a Source
of Error in Polarographic Analyses, by
M. von Stackelberg.
GERMAN, per, Z. Anal. Chem. Vol 173, 1960,
pp 90-93. 9233242
AEC OPNL-tr-1274

Sci/Xchemistry
Aug 66

306,288
~~306,285~~

62-20025

Klüh, Ivan; Dolezal, Jan, and Zyka, Jaroslav.
RAPID REDUCTOMETRIC DETERMINATION OF MANGANESE IN ALLOYS AND MINERALS. Jan 62 [?].
10 refs.
Order from SLA \$1.10

62-20025

Trans. of Zeitschrift für Analytische Chemie
(West Germany) 1960, v. 177, p. 14-20.

DESCRIPTORS: *Manganese, Determination, *Alloys,
*Minerals, Reduction (Chemistry).

A new volumetric method for the determination of manganese is developed, which is based on the oxidation of the manganese with potassium bromate in the presence of concentrated phosphoric acid and on the reductometric titration of the resulting trivalent manganese with iron (II) solution or hydroquinone solution as standard liquid. The titration can be carried out pot-
(Chemistry--Analytical, TT, v. 9, no. 9) (over)

I. Klüh, I.
II. Dolezal, J.
III. Zyka, J.

Office of Technical Services

Photometric Determination of Traces of Carbon
Monoxide in Hydrogen, by G. Ciuhandu,
G. Krall.

GERMAN, per, Z fur Analytische Chemie,
Vol CLXXII, No 2, 1960, pp 81-87.

CSIRO

Sci - Chem
Apr 62

191,432

(SP-1307)

Hydrolysis and Analytical Control of Nitric Acid
Esters ("Nitro-Bodies"), by E. Schulek, K. Burger,
M. Feher, 6 pp.

GETTMAN, per, Z fur Analytische Chemie, Vol CLXXVII,
No 2, Oct 1960, pp 81-86.

JPRS 4320

Sci - Chem

Feb 61

138,804

Detection of the Active Ingredients of Plant
Protection Substances in Mixtures With The
Help of Infrared Spectrography, by Fischer,
Uhlich.

GERMAN, per, Z. fur Analytische Chemie, Vol
CLXXII, No 1403, 1960, pp 175-192.

831
GB/39

Sci
Dec 62

Determination of Strontium-90 in Water Samples
by Ion-Exchange Processes, by H. Knapstein, 15 pp.

GERMAN, per, Z. fuer Analytische Chemie, Vol CLXXX,
No 4, 1960, pp 255-265. 9093265

AKRE, Harwell Tr-881

Sci - Chem
Apr 62

190, 317

Wider Use of Flame Photometry, by K. Kneip
W. Schmidt.

GERMAN, per, Z fuer Analytische Chemie,
Vol CLXXIII, No 5, 1960, pp 358-369.

ACSIL 1416

Sci - Chem

Jun 61

156, 919

Meyer, W.
POLYESTERS AS STATIONARY PHASES IN GAS
CHROMATOGRAPHY. [1961] Sp. (7 figs. omitted)
9 refs.
Order from SLA m\$1.80, ph\$1.80 61-10811

Trans. of Zeit[schrift] für Analytische Chem[ie]
(West Germany) 1960, v. 175 [no. 8] p. 330-335.

151868

(Chemistry--Analytical, TT, v. 5, no. 9)

61-10811

1. Gases--Chromatographic analysis
2. Esters--Applications
3. Fats--Chromatographic analysis
1. Meyer, W.

Office of Technical Services

Adsorption of Uranium from Alcohol-Hydrochloric
Acid Solution on Strongly Basic Anion Exchange
Dowex-1, by J. Korkisch, P. Antal, et al.

GERMAN, per, Z. Anal. Chem, Vol CLXXII, 1960,
pp 401-408. 9204974

AEC-GAT-Z-Tr-5036

Sol - Chem

Apr 63

226,846

CEA-tr-A-954 Uncl.

DETERMINATION DE MICROQUANTITES DE THORIUM DANS
LES ROCHES SILICATEES, LES SEDIMENTS, ET AUTRES
SUBSTANCES APRES ENRICHISSEMENT PREALABLE DU
THORIUM PAR ECHANGE D'IONS. (Determination of
Microquantities of Thorium in Rock Silicates,
Sediments, and Other Substances after Previous
Enrichment of Thorium by Ion Exchange).
J. Korkisch and P. Antal. Translated into
French from Z. anal. Chem., 173: 126-38(1960).
39p.

Analytical; Chemistry; Translations MC-4

C-4 NP NSA Dep. (mc); \$3.60(fs); \$1.37(mf)
N-4 JCL

CEA-tr-A-1291 Uncl.

SÉPARATION ÉLECTROLYTIQUE ET ÉLECTROCHIMIQUE
DU RADIUM D, RADIUM E ET DU POLONIUM À PARTIR
D'UNE SOLUTION D'ÉTHYLÉNEDIAMINE TÉTRAACÉTATE.
(Electrolytic Separation and Electrochemistry
of Radium D, Radium E, and Polonium Starting
with a Solution of Ethylenediamine Tetraacetate).
Vlastimil Vebersik. Translated into French
from Z. Anal. Chem., 175: 405-15(1960).

26p. 9203630

Chemistry; Translations MC-4

C-4 NP NSA Dep.(mc); \$2.60(fs), \$0.98(mf)
N-3 JCL

The Determination of the Nitrogen Isotope
Abundance in Ammonium Nitrogen, by
R. Huser, et al.

GERMAN, per, Z. fuer Analytische Chemie,
Vol CLXXVI, No 6, 1960, pp 429-436.

CSIRO 5581

Sci
Dec 62

Szekeres, Ladislaus.

A RAPID METHOD FOR THE DETERMINATION OF SULFIDE, POLYSULFIDE, AND THIOSULFATE IONS TOGETHER (Eine Schnellmethode zur Bestimmung der Sulfid, Polysulfid-und Thiosulfationen Nebeneinander). [1961] [9]p. (foreign text included) 10 refs.

Order from SLA 51.10

62-10669

Trans. of Zeitschrift für Analytische Chemie (West Germany) 1960, v. 176, no. 2, p. 81-84.

DESCRIPTORS: *Sulfides, *Thiosulfates, Ions, Alkali metal compounds, Chemical analysis, Titration, *Detection (Chemical)

A process is described for the analysis of alkali sulfide solutions containing polysulfide and thiosulfate. In addition, four equally large aliquot portions of the (Chemistry--Analytical, TT, v. 8, no. 8) (over)

62-10669

L. Szekeres, L.

Office of Technical Services

GERMAN, per, Z. für Analytische Chemie,
(1960, pp 198-201.
K-H 10895 a

Sci-Chem
March 64

252,062

Hunold, G. A. and Schühlein, B.
THE PYRIDINE ALKALI REACTION AS BASIS FOR
THE DETERMINATION OF CHLORINATED ALIPHATIC
HYDROCARBONS. [1963] 13p. (figs. omitted) 20 refs.
Order from SLA \$1.60 63-14092

Trans. of Z[eitschrift f[ür] Anal[ytische] Chem[ie]
(West Germany) 1961, v. 179, no. 2, p. 81-91.

DESCRIPTORS: *Hydrocarbons, *Aliphatic compounds,
*Chlorides, *Pyridines, Hydroxides, Chemical
reactions, Quantitative analysis.

The pyridine-alkali reaction which has become known
as the "Fujiwara reaction" for the qualitative detection
of chloroform, was tested as to its use in the determina-
tion of other chlorinated aliphatic hydrocarbons. Pro-
cedures are given for the quantitative determination of
carbon tetrachloride, ethane tetrachloride, chloroform
ethylene tetrachloride, ethylene trichloride, ethane
dichloride and ethylene chlorohydrine in indoor air.
(Author)

63-14092

I. Hunold, G. A.
II. Schühlein, B.

(Chemistry--Analytical,
TT, v. 10, no. 5)

Office of Technical Services

Photometric Determination of Antimony With
Methylfluorone, by S. Meyer, O. G. Koch, 7 pp.

GERMAN, per, Zeit Anal Chem, Vol XX CLXXIX, 1961
pp 175-186. (9202882)

A.C.S.I.L. Tr 1462

Sci - Chem
Apr 63

Quantum Spectrochemical Detection of Major Elements
in Flue Dust and Iron Ores in the Direct Current
Carbon Arc, by H. Nickel, A. Pflugmacher.
GERMAN, per, Z fuer Analytische Chemie, Vol CLXXX,
No 6, 1961, pp 401-415.
CEGB 2995

Sci - M/M
Apr 64

255,144

CEA-tr-A-1032 Uncl.

L'ANALYSE SPECTRALE PAR FLUORESCENCE AUX
RAYONS X D'ÉCHANTILLONS GÉOCHIMIQUES POUR
DES ÉLÉMENTS DE NOMBRES ATOMIQUES COMPRIS
ENTRE 25 ET 40. (X-Ray Fluorescence Spectral
Analysis of Geochemical Samples of Elements
of Atomic Number 25 to 40). K. H. Wedepohl.
Translated into French from Z. Anal. Chem.,
180: 246-59(1961). 36p. 9069062

Analytical; Chemistry; Translations MC-4

C-4 NP NSA Dep.(mc); \$3.60(fs), \$1.28(mf)
N-3 JCL

Fundamentals of the Conductimetric Determination
of Carbon, by W. Schmidts, W. Bartscher.

GERMAN, per, Z fuer Analytische Chemie,
Vol CLXXXI, 1961, pp 54-59.

BISI 2907

Sci - Chem
Apr 63

229,324

Principe du Dosage de Carbone par Conductometrie,
by W. Schmidts, 9 pp.

GERMAN to FRENCH, per, A Z Anal Chem, Vol CLXXXI,
1961, pp 54-59 9203253

Reverse Translation
CEA No A 1244

Sci

Mar 63

Götz, A.
A RAPID METHOD FOR DETERMINING OXYGEN
IN ORGANIC SUBSTANCES. [1961] 6p. 10 refs.
Order from RIS \$12.00

RIS S-2121

Trans. of *Zeitschrift für Analytische Chemie* (West
Germany) 1960, v. 181, 5 July, p. 92-100.

DESCRIPTORS: *Organic compounds, *Oxygen,
Determination.

(Chemistry--Analytical, TT, v. 7, no. 5)

62-12440

- I. Götz, A.
- II. RIS S-2121
- III. Research Information
Service, New York

Office of Technical Services

Simon, H. and Müllhofer, G.
A MANOMETRIC PROCESS FOR C-H ANALYSIS WITH
WEIGHED SPECIMENS OF 0.3 MG AND LESS. [1962]
8p. (figs. refs. omitted).
Order from SLA \$1.10

62-16302

Trans. of Zeitschrift für Analytische Chemie (West
Germany) 1961, v. 181, p. 85-91.

DESCRIPTORS: Laboratory equipment, *Manometers,
Design, Calibration, *Carbon, *Hydrogen, Succinic
acids, *Chemical analysis.

(Chemistry--Analytical, TT, v. 9, no. 4)

62-16302

I. Simon, H.
II. Müllhofer, G.

Office of Technical Services

Schildknecht, H.
NORMAL SOLIDIFICATION, ZONE MELTING, AND
COLUMN CRYSTALLIZATION: NEW METHODS OF
FRACTIONAL CRYSTALLIZATION FROM THE MELT
[1964] 30p 23refs
Order from SLA \$2.60

TT-64-14960

Trans. of Zeitschrift für Analytische Chemie
(West Germany) 1961, v. 181, no. 1, p. 254-274.

(Chemistry--Physical, TT, v. 11, no. 11)

TT-64-14960

I. Schildknecht, H.
II. Title: New...

Office of Technical Services

Chromatographic Procedures in Organic Chemistry,
by Gerhard Hesse, 12 pp.
GERMAN, per, Z fuer Analytische Chemie, Vol CLXXXI,
1961, pp 274-283. 9224355
AEC-SC-T-64-618

Sci-~~x~~Chem
Aug 64

265,158

Thin-Layer Chromatography, by Egon Stahl, 15 pp.
GERMAN, per, Z fuer Analytische Chemie, Vol CLXXXI,
1961, pp 303-312. *9224664*
AEC-~~AK~~SC-T-64-614

Sci-Chem
Aug 64

265,117

Dosage Indirect du Calcium par Derivatographie
du Strontium et du Baryum dans une Prise D'Essai,
by L. Erdey, F. Paulik, et al.

GERMAN to FRENCH, per, Zeit Anal Chem, Vol CLXXXII,
No 5, 1961, pp 329-335. 9207196.

Reverse Translation
CEA No A -1301

Sci
May 63

Gas Chromatography of Ethylenedia-Minepiperazine Mixtures,
by A. Castiglioni.
GERMAN, per, Z fuer Analytische Chemie, Vol CLXXXII,
No 6, 1961, pp 428-429.

GB/114/anon/1062

Sci - Chem

Feb 64

250,488

Kritische Untersuchungen Über die Grenzen der Anwendbarkeit
der Methode der Kontinuierlichen Variationen Nach Job, by
E. ~~XX~~Asmus. Parts I and II. *Not Official Use Only*

GERMAN, per, Z fuer Analytische Chemie, Vol CLXXXIII,
No 6, 1961, pp 321-333, 401-412.

*MI London
Lib No 3374

Sci

Mar 64

Exact End-Point Determination in Potentiometry, by K. KIM Lauer, Y. Le. Duigou.

GERMAN, per, Z fuer Analytische Chemie,
Vol LXXXIV, No 1, 1961, pp 4-11.

CSIRO/No 5960

Sci-Chem Dept of Internal
Mar 63 ACS E57 No 10

225,365

62-22146

Luther, H. and Olert, H. H.
GROUP ANALYSIS OF SATURATED HYDROCARBONS
BY MOLECULAR SPECTROSCOPY. [1962] 10p.
Order from ATS \$12.50 ATS-48P61G

Trans. of Z[eitschrift für] Anal[ytische] Chem[ie]
(West Germany) 1961, v. 183, p. 161-172.

DESCRIPTORS: *Hydrocarbons, Analysis, *Molecular
spectroscopy, Spectrographic analysis

- I. Luther, H.
- II. Olert, H. H.
- III. ATS-48P61G
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

(Chemistry--Analytical, TT, v. 8, no. 6)

Office of Technical Services

Photometric Determination of Antimony With
Methylfluorone, by S. Mayer, O. G. Koch, 7 pp.

GERMAN, per, Zeit Anal Chem, Vol 88 CLXXIX, 1961,
pp 175-186. (9202882)

A.C.S.I.L. Tr 1462

Sci - Chem
Apr 63

226, 530

Etudes par Photometrie de Flamme de la Variation de
l'Emission de Quelques Elements, en Fonction de
l'Addition d'un Solvant Organique, by K. H. Neeb,
12 pp.

GERMAN to FRENCH, per, Z. fuer Analytische Chemie,
~~XXXXXXXXXXXX~~ Vol CLXXXIV, No 6, 1961, pp 414-424.
9091227

REVERSE TRANS
CEA Tr A-1116

Sci
18 Sep 62

Saassenberg, Werner and Wrabetz, Karl.
DI-(3, 3, 5-TRIMETHYLCYCLOHEXYL)-ORTHO-
PHTHALATE AS THE STATIONARY PHASE FOR THE
GAS CHROMATOGRAPHY OF PHENOL DERIVATIVES.
[1964] 6p (figs refs omitted)
Order from SLA \$1.10

TT-63-20937

Trans. of Zeitschrift für Analytische Chemie
(West Germany) 1961, v. 184, p. 423-427.

(Chemistry--Organic, TT, v. 12, no. 2)

TT-63-20937

I. Saassenberg, W.
II. Wrabetz, K.

Office of Technical Services

Determination of the Composition of a Classic
Peptide Chain, by Gerhard Braunitzer, 9 pp.

GERMAN, per, Z fuer Analytische Chemie, Vol
CLXXXI, 1961, pp 514-526.

NIH 12-30-62

Sci - Chem

Feb 63

2, 2, 2, 4, 7, 3

Welbel, Max.
THE DETERMINATION OF ALUMINUM IN THE
CHEMICAL ANALYSIS OF SILICATE. [1963] 9p
Order from K-H \$9.00 K-H 11933

Trans. of Zeitschrift [für] Analytische Chemie
(West Germany) [1962] v. 184, p. 322-327.

DESCRIPTORS: *Silicates, Chemical analysis,
*Aluminum.

(Chemistry--Analytical, TT, v. 10, no. 10)

63-22517

I. Welbel, M.
II. K-H-11933
III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Research Into Substituted Dithiophosphate.
Part 1. Diethyldithiophosphoric Acid and
its Sodium Salt, by H. Bode.
GERMAN, per, Zeitschrift fuer Analytische
Chemie, Vol 185, 1962, pp 99-110.
NTC 72-10171-07B

Apr 72

Vitzthum, Otto.
THE THERMAL FACTOR IN GAS CHROMATOGRAPHY.
[1964] 13p (figs refs omitted)
Order from SLA \$1.60

TT-63-20929

Trans. of Zeitschrift für Analytische Chemie
(West Germany) 1962, v. 189, no. 1, p. 66-77.

(Chemistry--Analytical, TT, v. 12, no. 2)

TT-63-20929

I. Vitzthum, O.

Office of Technical Services

Potentiometric Method for the Determination of
Small Boron Contents in Steels, by H.-J. Grabner.

GERMAN, per, Zeitschrift für Analytische Chemie,
Vol CLXXXIV, No 5, 1962, pp 327-331.

BISI 3281

Sci - Elektron
Aug 63

342,168

TT-64-12340

Bode, Helmut and Arnsward, Wolfgang.
DIETHYLDITHIOPHOSPHORIC ACID AND ITS SODIUM
SALT. Jan 64, 3500 words
Order from LSA \$35.35

I. Bode, H.
II. Arnsward, W.
III. Literature Service
Associates, Bound Brook,
N. J.

Trans. of Zeitschrift für Analytische Chemie (West
Germany) 1962, v. 185, no. 2, p. 99-110.

DESCRIPTORS: *Sodium compounds, Salts, *Phosphoric
acid*, *Ethyl radicals, *Thio radicals.

(Chemistry--Analytical, TT, v. 11, no. 11)

Office of Technical Services

Investigation of the Formation of
sulfates, Report No. 11, Formation of
Metal-Diethyldithiophosphates and Their
Extractability From Mineral-Acid Solutions,
by Helmut Bode, Wolfgang Arnsfeldt, 57 pp.

GERMAN, per, Z. Analytische Chemie,
Vol CLXXXV, 1962, pp 179-201. 90669~~9~~9?

ARC Tr-5202

Sci - Chem
Oct 62

~~251,540~~
251,540

A New Tast Polarograph, by K. Kronenberger,
W. Nickels.
GERMAN, per, Zeit. Anal. Chem. Vol 186, 1962,
pp 79-86. P911020566
AEC ORNL-tr-1269

Sci/Chemistry
Sep 66

309,368

63-18150

Sturm, F. V. and Ressel, M.
INFLUENCE OF EXPERIMENTAL CONDITIONS DURING ANALYTICAL DETERMINATIONS BY MEANS OF SQUARE WAVE POLAROGRAPHY AFTER ELECTROLYSIS ON A STATIONARY ELECTRODE. [1963] 23p.

31 refs.

Order from SLA \$2.60

63-18150

Trans. of Zeitschrift für Analytische Chemie] (West Germany) 1962, v. 186, no. 1, p. 63-76. 23p.

DESCRIPTORS: *Polarographic analysis, *Electrolysis, Electrodes, Mercury, *Electrochemistry.

A combination of square-wave polarography with the anodic stripping technique is described. Concentration of the metals is carried out by pre-electrolysis at a stationary mercury-drop electrode in a stirred solution. (Chemistry--Analytical, TT, v. 10, no. 12) (over)

I. Sturm, F. V.
II. Ressel, M.

Office of Technical Services

63-18151

Specker, H. and Trub, H.
DETERMINATION OF TRACES OF LEAD IN CON-
CENTRATED PHOSPHORIC ACID BY ANODIC
AMALGAM VOLTAMMETRY. [1963] 6p (refs. omitted).
Order from SLA \$1.10 63-18151

Trans. of Zeitschrift für Analytische Chemie
(West Germany) 1962, v. 186 [no. 1] p. 123-127.

DESCRIPTORS: *Lead, Microanalysis, *Phosphoric
acid, Anodes, Mercury alloys, Voltmeters, Pyridines.

By means of anodic amalgam voltammetry it is possible
to determine very small traces of lead and other heavy
metals in concentrated phosphoric acid, (sp. gr. 1.7).
The only reagent added is pyridine. Thus the danger of
introducing impurities is very small in contrast to ex-
isting methods. The time required for a single deter-
mination is 15 min. The variance for 1 ppm. lead from
11 determinations was 3.8%. (Author)

I. Specker, H.
II. Trub, H.

(Chemistry--Analytical, TT,
v. 10, no. 12)

Office of Technical Services

63-18166

I. Kraft, G.

Kraft, G.
METHODS OF ELECTRIC INDICATION FOR COM-
PLEXOMETRIC TITRATIONS [Möglichkeiten für die
Elektrische Indikation Komplexometrischer Titrationen].
[1963] 8p. 14 refs.
Order from SLA \$1.10

63-18166

Trans. of Zeitschrift für Analytische Chemie (West
Germany) 1962, v. 186 [no. 1] p. 187-193.

DESCRIPTORS: *Electrochemistry, *Titration,
*Sequestering agents, Complex compounds, Metal-
organic compounds, Voltmeters, Potentiometers,
Electrical conductance.

The paper shows the possibilities for electrical indica-
tion of complexometric titrations, discussing in detail
the potentiometry, amperometry, voltammetry as well
as the conductometry. It furthermore deals with a new
indication system by means of a polarized oxide elec-
(Chemistry--Analytical, TT, v. 10, no. 12) (over)

Office of Technical Services

Bonitz, E. and Huber, W.
DETERMINATION OF PURITY OF ORGANOALUMI-
NUM COMPOUNDS BY RECORDING CONDUCTIVITY
TITRATION. [1962] 12p.
Order from K-H \$15.00

K-H 12315

Trans. of Z[eitschrift für] Anal[ytische] Chem[ie]
(West Germany) 1962, v. 186, p. 206-212.

DESCRIPTORS: *Metalorganic compounds, *Aluminum
compounds, *Electrolytic titration, Impurities,
Chemical analysis, Electrical conductance.

(Chemistry--Analytical, TT, v. 9, no. 11)

63-12933

- I. Bonitz, E.
- II. Huber, W.
- III. K-H-12315
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Asmus, E., Hohne, R., and Krastsch, J.
PHOTOMETRIC DETERMINATION OF NICOTINE
AND PYRIDINE IN TOBACCO SMOKE. [1962] 8p.
Order from K-H \$10.00 K-H 12144

Trans. of Z[eitschrift für] Anal[ytische] Chem[ie]
(West Germany) 1962, v. 187, no. 1, p. 33-37.

DESCRIPTORS: *Tobacco, Smokes, *Nicotine, *Pyri-
dines, Spectrographic analysis, Photometers,
Determination.

(Chemistry--Analytical, TT, v. 9, no. 1)

62-34103

62-16445

- I. Asmus, E.
- II. Hohne, R.
- III. Krastsch, J.
- IV. K-H-12144
- V. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Experiences With a New Rapid Method of Micro C-H
Determination, by W. Pfab, 13 pp.

GERMAN, per, Z fuer Analy Chemie, Vol CLXXVII,
No 5, 1962, pp 354-361. 9689182

DDC RSUC-83

Sci - Physics
Nov 63

243, 478

Budesinsky, B.
SPECTROPHOTOMETRIC STUDY OF THE REACTION
OF URANIUM(VI) AND IRON(III) WITH XYLENOL-
ORANGE: RAPID DETERMINATION OF TRACES OF
IRON IN URANIUM. [1962] 7p. (figs. omitted) 7 refs.
Order from SLA \$1. 10 62-20439

Trans. of Z[schrift] für Anal[ytische] Chem[ie]
(West Germany) 1962, v. 188, no. 4, p. 266-272.

DESCRIPTORS: *Uranium, *Iron, Chemical reactions,
Spectrographic analysis, *Phenols, *Methyl radicals,
*Tracer studies, Chemical analysis, Spectrophotome-
ters, *Dyes.

The formation conditions of the complex of UO_2^{2+} and
 Fe^{3+} with xylenolorange were found, the composition
of the resulting complex determined, and the stability
constant calculated. On the basis of the observed re-
(Chemistry--Analytical, TT, v. 10, no. 3) (over)

62-20439

- I. Title: Xylenolorange
- I. Budesinsky, B.
- II. Title: Rapid ...

Office of Technical Services

Determination of Ziegler Activity of Organic
Aluminum Compounds by Physical Measurements.

II. Calorimetric Titration, by E. G. Hoffmann,
W. Tornau, 16 pp.

GERMAN, per, Zeitschrift fuer Analytische Chemie,
Vol CLXXXVIII, No 5, 1962, pp 321-334.

SIA 63-10018

Sci

Jul 63

238,084

Kiss, Sandor A.

TITRATION OF SULFIDE, POLYSULFIDE AND THIOSULFATE WITH "DEAD STOP" INDICATION (Titration von Sulfid, Polysulfid und Thiosulfat mit "Dead Stop-Indikation). [1963] (foreign text included) 8 refs.

Order from SLA \$1.10

63-14082

Trans. of Z[eitschrift für] Anal[ytische] Chem[ie] (West Germany) 1962, v. 188, p. 341-344.

DESCRIPTORS: *Sulfides, Polymers *Thiosulfates. Volumetric analysis, Reagents Ammonia, Silver compounds, Nitrates, Mercury compounds, Chlorides, Boric acid.

A method has been developed for the volumetric determination of sulphide, polysulphide, and thiosulphate using dead stop end point indication. Sulphide is titrated by ammoniacal silver nitrate solution. (Chemistry--Analytical, TT, v. 10, no. 6) (over)

63-14082

1. Title: Dead-stop titration

1. Kiss, S. A.

Office of Technical Services

Recent Developments in Gas-Chromatographic
Detectors, by G. Schonburg.

GERMAN, par. Z. fuer Analytische Chemie,
Vol. ~~110~~ 110, No 1, 1962, pp 14-50.

CLXXXIX,

AERE, Harwell

Tr-1689

AERE-Tr-937 (9213623)

211,047

Sci - Chem
Sep 62

BGIRA no. 565

Gas-Chromatography Analysis of Inorganic Gases,
by H. Rungs, 15 ff

GERMAN, per, Z. fuer Analytische Chemie,
Vol CLXXXIX, No 1, 1962, pp 111-121.

AERE, New York 71-930
AERE, Harwell
Tr-1690
SLA 62-12999 a 66-10660

Sci - Chem
Sep 62

211, 046
(GB/139/563)